

crushing and delignifying a solid medium containing *Lentinus edodes* mycelia in the presence of water and one or more enzymes selected from the group consisting of cellulase, protease and glucosidase to prepare a suspension, wherein said solid medium is based on bagasse and defatted rice bran; and

raising the temperature of said suspension to inactivate the enzymes;

wherein said extract enhances $\gamma\delta$ T cell activity.

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~~18~~. The extract of claim ¹~~14~~, which comprises carbohydrates, proteins, polyphenols, crude fat, crude ash and soluble nitrogen-free materials other than carbohydrates.

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~~16~~. The extract of claim ¹~~14~~, which comprises approximately, 25.3% carbohydrates, 19.7% proteins, 2.6% polyphenols, 8% crude fat, 22% crude ash and 20% soluble nitrogen-free materials other than carbohydrates.

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~~17~~. The extract of claim ¹~~14~~, wherein said extract is capable of activating $\gamma\delta$ T cells in vitro.

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~~18~~. A pharmaceutical or veterinary composition for enhancing $\gamma\delta$ T cell activity, which comprises an extract of claim ¹~~14~~ and a pharmaceutically acceptable carrier.

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⁶~~15~~. The composition of claim ⁴~~17~~, wherein said composition is suitable for oral administration.

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cont. ⁷~~20~~. The composition of claim ⁴~~17~~, wherein said composition is prepared in the form of a food.

⁸~~21~~. The composition of claim ⁴~~17~~, wherein said composition is prepared in the form of a drink.

⁹~~22~~. The composition of claim ⁴~~17~~, wherein said composition is prepared in the form of a feed.

¹⁰~~23~~. The composition of claim ⁴~~17~~, wherein said composition is suitable for injection or percutaneous administration.

¹¹~~24~~. A method of treating a tumor which comprises administering to a subject in need thereof an effective amount the extract of claim ¹~~14~~ to enhance $\gamma\delta$ T cell activity.

¹²~~25~~. A method of treating a tumor which comprises administering to a subject in need thereof an effective amount the extract of claim ²~~15~~ to enhance $\gamma\delta$ T cell activity.

¹³~~28~~. A method of treating a bacterial or viral infection which comprises administering to a subject in need thereof an effective amount the extract of claim ¹~~14~~ to enhance $\gamma\delta$ T cell activity.

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cont.
¹⁴~~27~~. A method of treating a bacterial or viral infection which comprises administering to a subject in need thereof an effective amount the extract of claim ²~~15~~ to enhance $\gamma\delta$ T cell activity.

¹⁵~~28~~. The method of claim ¹³~~26~~ or ¹⁴~~27~~, wherein said disease in an infection by Mycobacterium, spp.

¹⁶~~28~~. The method of claim ¹³~~26~~ or ¹⁴~~27~~, wherein said disease in an infection by Listeria monocytogenes.

¹⁷~~28~~. The method of claim ¹³~~26~~ or ¹⁴~~27~~, wherein said disease in an infection by Hepatitis A.

¹⁸~~28~~. The method of claim ¹³~~26~~ or ¹⁴~~27~~, wherein said disease in an infection by Hepatitis B.

¹⁹~~28~~. The method of claim ¹³~~26~~ or ¹⁴~~27~~, wherein said disease in an infection by Hepatitis C.

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~~23~~. The method of claim ¹³~~26~~ or ¹⁴~~27~~, wherein said disease is an infection by human immunodeficiency virus.

B1 cont. ²¹
~~34~~. The method of claim ¹³~~26~~ or ¹⁴~~27~~, wherein said disease is an infection by vaccinia virus.--
